

## United States Patent and Trademark Office

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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,863	11/15/2001 7590 12/08/2005		Ivan J. Leichtling	212630	4785
45979				EXAM	EXAMINER
PERKINS O		P/MSFT	RIVERO,	RIVERO, MINERVA	
SEATTLE, WA 98111-1247				. ART UNIT PAPER NUMBE	PAPER NUMBER
				2655	

DATE MAILED: 12/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Comment   Examiner		Application No.	Applicant(s)						
### Examiner ### Art Unit ### Minerva Rivero									
Minerva Rivero	Office Action Summany	10/002,863	LEICHTLING						
The MALING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Edenators of them may be available used the provision of 30° CR1 13(6), in no event, however, may a reply be limity filed.  If NO period for reply is specified above, the maximum statutory priority will apply and will be sold to be become APANDED G3 U.S. C, § 133, Any reply reciving by will the set of a certified priority free and the maximum statutory provided by the become APANDED G3 U.S. C, § 133, Any reply reciving by the Diffice later than these moretic after the mailing date of file communication, even if smally filed, may reduce any extent priority and the mailing date of file communication, even if smally filed, may reduce any extent priority and the mailing date of file communication, even if smally filed, may reduce any extent priority and the mailing date of file communication, even if smally filed, may reduce any extent priority and the mailing date of file communication, even if smally filed, may reduce any extent priority and the mailing date of file communication, even if smally filed, may reduce any extent priority and the mailing date of file communication, even if smally filed, may reduce any extent priority and any any extent priority.  1) Responsive to communication(s) filed on 22 November 2005.  2a) This action is FINAL.  2b) This action is finAL.  2b) This action is filed on 22 November 2005.  2b) This action is FinAL.  2b) This action is filed to 25 November 2005.  2c) Claim(s) 1-26 is/are pending in the application.  4a) Of the above claim(s) 13 and 26 is/are withdrawn from consideration.  5b) Claim(s) 1-26 is/are allowed.  6b) Claim(s) 1-32 and 26 is/are withdrawn from consideration.  5c) Claim(s) 1-32 and 26 is/are elected.  7c) Claim(s) 1-32 and 26 is/are elected.  7d) Claim(s) 1-32 and 26 is/are elected.  7d) Claim	Office Action Summary	Examiner	Art Unit						
Period for Reply  A SHORTENEO STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of times may the sandhale ander the previous of 37 CFR 1.38(a). In an event, however, may a reply be timely filled.  If No period for reply is equilible to allow the previous of 37 CFR 1.18(b), in an event, however, may a reply be timely filled.  If No period for reply is equilible and the previous of 37 CFR 1.78(b). In an event, however, may a reply be timely filled.  If No period for reply is equilible to the sandhale and the previous of the part of the mailing date of this communication, even if timely filled.  Failure to reply within the set or extended general article he mailing date of fill is communication, even if timely filled, may reduce any searched patient term adjustment. See 37 CFR 1.704(b).  Status  1)  Responsive to communication(s) filled on 22 November 2005.  2a)  This action is FINAL.  2b) This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s)									
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provides of 3 CPR 1.136(a), the overth. Averes, may a repty be finerly filed after 50. (b) MONTHS from the mailing date of this communication.  Failutes to reply within the act or scheded paried for reply will. By statistic scance the application to become ARAPOCHEO, 50.5 U.S. C. \$1.03.  Any reply received by the Office later than three months after the mailing date of this communication than adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 22 November 2005.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-26 is/are pending in the application.  4a) Of the above claim(s) 13 and 26 is/are withdrawn from consideration.  5) Claim(s) is/are rejected.  7) Claim(s) is/are rejected.  7) Claim(s) is/are rejected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f): a) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f): a) Certified copies of the priority documents have been received in Application No.  1. Certified copies of the priority documents have been received in Application No.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received.  Attachment(s)  1) Notice of References Cited (PTO-892)  3) Information Disclosure Statement(s) (PTO-144) or PTO-346;  5) S									
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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-2, 4-9, 12, 14-15, 17-22 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Borella *et al.* (US Patent 6,434,606) in view of Harris *et al.* (US Patent 6,665,283), further in view of Scott (US Patent 6,665,317).
- 3. Regarding claims 1 and 14, Borella *et al.* disclose a method of and computer readable medium for

adding incoming packets of audio data to a buffer (data packet sequence, Col. 6, Line 66 – Col. 7, Line2);

detecting when the buffer contains an amount of audio data which matches a predetermined threshold amount (*determining whether the buffer is full*, Col. 13, Lines 39-41; Fig. 9, element 1502); and

detecting when a burst has ended (talk spurt, Col. 15, Lines 57-63).

However, Borella et al. do not explicitly disclose but Harris et al. do disclose when the buffer contains an amount of audio data which matches a threshold amount, playing the audio data contained in the buffer (waiting to reach the play-out buffer's target depth before playing out audio, Col. 10, Lines 54 - 64); and when a burst has ended, playing the audio data contained in the buffer (when the end of a talk spurt is detected the AUDIO\_CTRL data field is set to '1' which signals an application to begin playing out the vocoded frames, Col. 11,).

Therefore it would have been obvious to one ordinarily skilled in the art at the time of the invention to supplement the teachings of Borella *et al.* with when the buffer contains an amount of audio data which matches a threshold amount, playing the audio data contained in the buffer, and when a burst has ended, playing the audio data contained in the buffer, as taught by Harris *et al.* in order to avoid losing audio data due to a full buffer and to allot time for compensation of missing packets during a talk spurt.

Moreover, the combined teachings of Borella *et al.* and Harris *et al.* do not explicitly disclose but Scott does disclose determining the amount of jitter accumulated in the last burst (*calculating jitter buffer size*, Col. 7, Lines 47-50); and waiting for a silent period based on the amount of accumulated jitter before playing subsequent bursts (*inserting silence packet based on the jitter buffer size and playing second burst accordingly*, Col. 7, Lines 47-65; see *bursts* and *inserted silence packet* in Fig. 13).

Therefore it would have been obvious to one ordinarily skilled in the art at the time of the invention to modify the combined teachings of Borella *et al.* and Harris *et al.* with determining the amount of jitter accumulated in the last burst and waiting for a

silent period based on the amount of accumulated jitter before playing subsequent bursts, as disclosed by Scott, in order to manage the jitter buffer in a way as to maintain the outputted traffic continuous, and maintain the quality and coherency of the voice data being outputted, as further disclosed by Scott (Col. 7, Line 66 – Col. 8, Line 4).

4. Regarding claims 2 and 15, Borella et al. do not explicitly disclose but Harris et al. do disclose each of said bursts includes an end packet, wherein the step of detecting when a burst has ended comprises detecting an end packet (end of talk spurt is detected, Col. 11, Lines 5-9).

Therefore it would have been obvious to one ordinarily skilled in the art at

The time of the invention to supplement the teachings of Borella *et al.* with having each
of the bursts include an end packet and wherein the step of detecting when a burst has
ended comprises detecting an end packet, as taught by Harris *et al.* so as to enable the
buffering process by positively identifying speech packets.

- 5. Regarding claims 4 and 17, Borella *et al.* further disclose periodically adjusting the threshold (*periodic evaluation of jitter buffers and alternation of jitter buffer used*, Col. 6, Lines 57-65; Col. 10, Lines 62-65).
- 6. Regarding claims 5 and 18, Borella *et al.* further disclose periodically measuring a length of a burst; and resetting the threshold to factor of the length of the most recently measured burst (Col. 11, Lines 27-32; Col. 17, Lines 25-26; *sensitivity settings*,

Col. 19, Lines 18-28; using first or second order statistics in a buffer selection scheme, Col. 19, Lines 41-53; burst basis, Col, 19, Lines 29-40).

7. Regarding claims 6 and 19, Borella *et al.*, further disclose measuring respective jitter times between packets received during a current

sample period to determine a measured jitter amount (burst basis and current delay,

Col. 19, Lines 29-40; variation of delay, Col. 19, Lines 42-51);

calculating an adjusted threshold time as a factor of the measured jitter amount (Col. 11, Lines 27-32; Col. 17, Lines 25-26; sensitivity settings, Col. 19, Lines 18-28; using first or second order statistics in a buffer selection scheme, Col. 19, Lines 41-53; burst basis, Col, 19, Lines 29-40); and

resetting the threshold to the adjusted threshold time to be applied during a subsequent sampling period (*computationally-desirable jitter buffer* and *subsequent talk spurt*, Col. 15, Lines 43-56; *resetting jitter buffer*, Col. 11, Lines 24-32).

Regarding claims 7 and 20, Borella *et al.* disclose each sampling period is one of said bursts (*burst basis*, Col. 19, Lines 29-31).

8. Regarding claim 8, Borella et al. disclose each sampling period is a predetermined period of time (sampling rate may have a constant period, Col. 18, Lines 12-14).

- 9. Regarding claims 9 and 22, Borella *et al.* disclose setting the threshold at a value during an initial sampling period (*buffers have associated buffer values*, Col. 15, Lines 37-42).
- 10. Regarding claims 12 and 25, Borella *et al.* further disclose repeating the measuring, calculating and resulting steps during each sampling period (*buffers are periodically evaluated and selected*, Col. 15, Lines 57-67).
- 11. Claims 3 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Borella *et al.* (US Patent 6,434,606) in view of Harris *et al.*, further in view of Scott (US Patent 6,665,317) and further in view of Anandakumar *et al.* (US Patent 6,801,532).
- 12. Regarding claims 3 and 16, the combined teachings of Borella *et al.*, Harris *et al.* and Scott do not explicitly disclose, but Anandakumar *et al.* do disclose each end packet includes an end flag (*talkspurt flag or silence flag*, Col. 50, Lines 49-54).

Therefore it would have been obvious to one ordinarily skilled in the art at the time of the invention to supplement the combined teachings of Borella *et al.*, Harris *et al.* and Scott with having each end packet include an end flag as taught by Anandakumar *et al.* in order to facilitate the buffering process by positively identifying speech packets.

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13. Claims 10-11 and 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Borella *et al.* (US Patent 6,434,606) in view of Harris *et al.* (US Patent 6,665,283), further in view of Scott (US Patent 6,665,317), and further in view of Orleth *et al.* (US Patent 5,872,789).

14. Regarding claims 10 and 23, the combined teachings of Borella *et al.*, Harris *et al.* and Scott do not explicitly disclose, but Orleth *et al.* do disclose

determining an average jitter time between at least some of the packets in the sample period (Col. 1, Lines 47-57);

the adjusted threshold time equaling at least the average jitter time (*cells are* read at the average value of the jitter that has occurred, Col. 2, Lines 37-43).

Therefore it would have been obvious to one ordinarily skilled in the art at the time of the invention to supplement the combined teachings of Borella *et al.*, Harris *et al.* and Scott with determining an average jitter time between at least some of the packets in the sample period and the adjusted threshold time equaling at least the average jitter time, as taught by Orleth *et al.*, since Orleth *et al.* teach that processing the packets in this manner reduces jitter (Col. 1, Lines 55-56).

15. Regarding claims 11 and 24, the combined teachings of Borella *et al.*, Harris *et al.* and Scott do not explicitly disclose, but Orleth *et al.* do disclose the adjusted threshold time equals more than the average jitter time (correction quantity is added to the average result, Col. 2, Lines 4-9).

Therefore it would have been obvious to one ordinarily skilled in the art at the time of the invention to supplement the combined teachings of Borella *et al.* and Harris *et al.* with having the adjusted threshold time equal more than the average jitter time, as taught by Orleth *et al.*, since this is associated with the successful compensation of probable rounding errors during processing of the packets, as taught by Orleth *et al.* (Col. 2, Lines 10-13).

## Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minerva Rivero whose telephone number is (571) 272-7626. The examiner can normally be reached on Monday-Friday 9:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MR 12/5/05

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